

RESAMPLING SYSTEM AND METHOD FOR GRAPHICS DATA INCLUDING SINE-
WAVE COMPONENTS

ABSTRACT OF THE DISCLOSURE

A method and system for calculating resample output values from input samples and their associated sample values. A resampling circuit calculates a frequency value for a sine-wave model from a sample set of the input samples and determines whether the frequency value is in a frequency range. In the case where the frequency value is in the frequency range, a sinusoidal transition model is determined based on the sample set. However, if the frequency value is outside of the frequency range, a non-sinusoidal model is determined based on the sample set. The resampling circuit then calculates resample output values from the resulting sinusoidal or non-sinusoidal model.